BBA

Gene Structure and Expression

Vol. 1089, 1991

Cumulative Contents

Regular Papers

The α-ketoacid dehydrogenase complexes. Sequence similarity of rat pyruvate dehydrogenase with *Escherichia coli* and *Azotobacter vinelandii* α-ketoglutarate dehydrogenase
S. Matuda, K. Nakano, S. Ohta, T. Saheki, Y.-i. Kawanishi and T. Miyata (Japan) 1

In vivo assembly of the cytochrome *d* terminal oxidase complex of *Escherichia coli* from genes encoding the two subunits expressed on separate plasmids
G. Newton and R.B. Gennis (U.S.A.) 8

Molecular cloning of mouse hepatic triacylglycerol lipase: gene expression in combined lipase-deficient (*cld/cld*) mice
K. Oka, T. Nakano, G.T. Tkalcevic, R.O. Scow and W.V. Brown (U.S.A.) 13

Purification of a stage-specific and sequence-specific DNA-binding protein for the arylphorin gene of *Sarcophaga peregrina*
J.W. Kim, H. Komano and S. Natori (Japan) 21

Stimulation of glucose transporter (GLUT1) mRNA and protein expression by inhibitors of glycosylation
F. Maher and L.C. Harrison (Australia) 27

5′ Flanking sequences of human MRP/7-2 RNA gene are required and sufficient for the transcription by RNA polymerase III
Y. Yuan and R. Reddy (U.S.A.) 33

Comparison on collagen gene expression in the developing chick embryo tendon and heart. Tissue and development time-dependent action of dexamethasone
A. Oikarinen, J. Mäkelä, T. Vuorio and E. Vuorio (Finland) 40

Posttranscriptional regulation of the expression of *MET2* gene of *Saccharomyces cerevisiae*
N. Forlani, E. Martegani and L. Alberghina (Italy) 47

Structure and expression of the negative growth factor mouse β-galactoside binding protein gene
L. Chiariotti, V. Wells, C.B. Bruni and L. Mallucci (Italy, U.K.) 54

A minor globin gene of the bivalve mollusc *Anadara trapezia*
D.A. Titchen, W.K. Glenn, N. Nassif, A.R. Thompson and E.O.P. Thompson (Australia) 61

In vitro expression of bovine opsin using recombinant baculovirus: the role of glutamic acid (134) in opsin biosynthesis and glycosylation
J.J.M. Jansen, W.R. Mulder, G.L.J. De Caluwé, J.M. Vlak and W.J. De Grip (The Netherlands) 68

The presence and active transcription of three independent leader exons in the mouse insulin-like growth factor II gene
K. Ikejiri, M. Furuichi, T. Ueno, T. Matsuguchi, K. Takahashi, H. Endo and M. Yamamoto (Japan) 77

Recombinant human interleukin-1 suppresses lipoprotein lipase activity, but not expression of lipoprotein lipase mRNA in mesenchymal rat heart cell cultures
G. Friedman, V. Barak, T. Chajek-Shaul, J. Etienne, A.J. Treves, O. Stein and Y. Stein (Israel, France) 83

Transcription and translation are required for fibrinogen mRNA degradation in hepatocytes
J.E. Nesbitt and G.M. Fuller (U.S.A.) 88

Molecular cloning and sequence analysis of cDNAs for five major subunits of human proteasomes (multi-catalytic proteinase complexes)
T. Tamura, D.H. Lee, F. Osaka, T. Fujiwara, S. Shin, C.H. Chung, K. Tanaka and A. Ichihara (Japan, Korea) 95

Expression in *Escherichia coli* of the genes coding for reaction center subunits from *Rhodobacter sphaeroides*: wild-type proteins and fusion proteins containing one or four truncated domains from *Staphylococcus aureus* protein A at the carboxy-terminus
P. Söhlemann, C. Oeckl and H. Michel (F.R.G.) 103

Cloning and analysis of the gene (*rpoDA*) for the principal σ factor of *Pseudomonas aeruginosa*
K. Tanaka and H. Takahashi (Japan) 113

Short Sequence-Papers

Sequence comparison of the sodium-D-glucose cotransport systems in rabbit renal and intestinal epithelia

A.I. Morrison, M. Panayotova-Heiermann, G. Feigl, B. Schölermann and R.K.H. Kinne (F.R.G.) 121
Primary structure of bovine chromogranin B deduced from cDNA sequence
J.W. Bauer and R. Fischer-Colbrie (Austria) 124

Reviews

Genetic analysis of the ubiquitin system
S. Jentsch, W. Seufert and H.-P. Hauser (F.R.G.) 127
Ubiquitin in health and disease
R.J. Mayer, J. Arnold, L. László, M. Landon and J. Lowe (U.K.) 141

Regular Papers

The DNA intercalator, ethidium bromide, alters the pattern of DNAse I hypersensitive sites of the β^A-globin gene in chicken erythrocytes
J.-d. Zhu, X.-p. Sun and F. Wang (China) 158
Human interferon ω1: isolation of the gene, expression in Chinese hamster ovary cells and characterization of the recombinant protein
G.R. Adolf, B. Frühbeis, R. Hauptmann, I. Kalsner, I. Maurer-Fogy, E. Ostermann, E. Patzelt, R. Schwendenwein, W. Sommergruber and A. Zöphel (Austria) 167
Somatic hypermutagenesis in immunoglobulin genes. I. Correlation between somatic mutations and repeats. Somatic mutation properties and clonal selection
I.B. Rogozin, V.V. Solovyov and N.A. Kolchanov (U.S.S.R.) 175
Regulation of expression of the genome of bacteriophage M13. Gene V protein regulated translation of the mRNAs encoded by genes I, III, V and X
G. Zaman, A. Smetsers, A. Kaan, J. Schoenmakers and R. Konings (The Netherlands) 183
Evidence for non-uniform translation of individual polypeptides in rat liver mitochondria
Y.M. Rabinovich and M.O. Kreinin (U.S.S.R.) 193
Differential expression of the mouse α_1-acid glycoprotein genes (AGP-1 and AGP-2) during inflammation and aging
K.C. Carter, D.J. Post and J. Papaconstantinou (U.S.A.) 197
The overexpression of the 3′ terminal region of the *CDC25* gene of *Saccharomyces cerevisiae* causes growth inhibition and alteration of purine nucleotides pools
G. Frascotti, P. Coccetti, M.A. Vanoni, L. Alberghina and E. Martegani (Italy) 206
Analysis of streptomycin-resistance of *Escherichia coli* mutants
C. Bonny, P.-E. Montandon, S. Marc-Martin and E. Stutz (Switzerland) 213
The 5′ untranslated region of encephalomyocarditis virus contains a sequence for very efficient binding of eukaryotic initiation factor eIF-2/2B
G.C. Scheper, A.A.M. Thomas and H.O. Voorma (The Netherlands) 220
A eukaryotic nuclear protein of 130 kDa binds to a bacterial cAMP responsive element
F. Kihara and H. Ariga (Japan) 227
Molecular cloning and nucleotide sequencing of the aspartate racemase gene from lactic acid bacteria *Streptococcus thermophilus*
M. Yohda, H. Okada and H. Kumagai (Japan) 234

Short Sequence-Papers

Specific hybridization probes for mouse type I, II, III and IX collagen mRNAs
M. Metsäranta, D. Toman, B. De Crombrugghe and E. Vuorio (U.S.A., Finland) 241
Two cDNAs encoding novel human FGF receptor
M. Seno, R. Sasada, T. Watanabe, K. Ishimaru and K. Igarashi (Japan) 244
Prostatic secretory protein PSP_{94}: gene organization and promoter sequence in Rhesus monkey and human
S. Nolet, M. Mbikay and M. Chrétien (Canada) 247
Molecular cloning, structure and expression analysis of a full-length mouse brain glutamate dehydrogenase cDNA
G. Tzimagiorgis and N.K. Moschonas (Greece) 250
Rat Cα catalytic subunit of the cAMP-dependent protein kinase: cDNA sequence and evidence that it is the only isoform expressed in myoblasts
S. Wiemann, H. Voß, V. Kinzel and W. Pyerin (F.R.G.) 254
cDNA cloning of porcine interleukin 2 by polymerase chain reaction
J.C. Goodall, D.C. Emery, M. Bailey, L.S. English and L. Hall (U.K.) 257
Sequence analysis of the homeobox-containing exon of the murine Hox-4.3 homeogene
R. Sadoul and M.S. Featherstone (Canada) 259
The nucleotide sequence of rabbit liver transferrin cDNA
D.K. Banfield, B.K.-C. Chow, W.D. Funk, K.A. Robertson, T.M. Umelas, R.C. Woodworth and R.T.A. MacGillivray (Canada, U.S.A.) 262
The cDNA for the heart/muscle isoform of bovine cytochrome *c* oxidase subunit VIa encodes a presequence
E.O. Smith, D.M. BeMent, L.I. Grossman and M.I. Lomax (U.S.A.) 266

Protein phosphatase $2B_w$ and protein phosphatase Z are *Saccharomyces cerevisiae* enzymes
E.F. Da Cruz e Silva,, V. Hughes, P. McDonald, M.J.R. Stark and P.T.W. Cohen (U.K.) 269

Isoforms of retinoic acid receptor β expressed in the chicken embryo
T. Nohno, K. Muto, S. Noji, T. Saito and S. Taniguchi (Japan) 273

Nucleotide sequence of the yeast glutathione *S*-transferase cDNA
H. Tamaki, H. Kumagai and T. Tochikura (Japan) 276

cDNA sequence of *Xenopus laevis* bone morphogenetic protein 2 (BMP-2)
S. Plessow, M. Köster and W. Knöchel (F.R.G.) 280

Nucleotide sequence of the last exon of the gene for human cytochrome *c* oxidase subunit VIb and its flanking regions
J.-W. Taanman, C. Schrage, E. Bokma, P. Reuvekamp, E. Agsteribbe and H. De Vries (The Netherlands) 283

Review

Escherichia coli seryl-tRNA synthetase: the structure of a class 2 aminoacyl-tRNA synthetase
R. Leberman, M. Härtlein and S. Cusack (France) 287

Regular Papers

Anti-cruciform DNA affinity purification of active mammalian origins of replication
D. Bell, M. Sabloff, M. Zannis-Hadjopoulos and G. Price (Canada) 299

Effects of protein synthesis inhibition on the transcription and transcript stability of *Dictyostelium* prespore genes
D.A. DeSilver, M.A. Benedict and D.I. Ratner (U.S.A.) 309

Restructuring the translation initiation region of the human parathyroid hormone gene for improved expression in *Escherichia coli*
G. Morelle, R. Frank and A. Meyerhans (F.R.G.) 320

Exonuclease III promotes in vitro binding of the replication initiator protein of plasmid pSC101 to the repeated sequences in the *ori* region
T. Fueki and K. Yamaguchi (Japan) 325

Construction and expression of synthetic wild-type and mutant genes encoding porcine pancreatic colipase: tryptophan fluorescence studies
E.G. Ernst and W.D. Behnke (U.S.A.) 331

Identification of the promoter region of the rat protein phosphatase 2Aα gene
Y. Kitagawa, H. Shima, K. Sasaki and M. Nagao (Japan) 339

The use of genetic engineering to obtain efficient production of porcine pancreatic phospholipase A_2 by *Saccharomyces cerevisiae*
A.C.A.P.A. Bekkers, P.A. Franken, C.J. Van den Bergh, J.M.A. Verbakel, H.M. Verheij and G.H. De Haas (The Netherlands) 345

Structural characterization and tissue-specific expression of the mRNAs encoding isoenzymes from two rat mitochondrial creatine kinase genes
R.M. Payne, R.C. Haas and A.W. Strauss (U.S.A.) 352

Codon usage, transfer RNA availability and mistranslation in amino acid starved bacteria
A.K. Ulrich, L.-Y. Li and J. Parker (U.S.A.) 362

New elements of glucocorticoid-receptor binding sites of hormone-regulated genes
I.A. Seledtsov, V.V. Solovyev and T.I. Merkulova (U.S.S.R.) 367

cis-Diamminedichloroplatinum (II) modified chromatin and nucleosomal core particle
J. Hayes and W.M. Scovell (U.S.A.) 377

Short Sequence-Papers

Characterization of a cDNA encoding subunit VI of cytochrome *c* oxidase from the slime mold *Dictyostelium discoideum*
R. Rizzuto, D. Sandonà, R.A. Capaldi and R. Bisson (Italy, U.S.A.) 386

Primary structure of the nuclear-encoded 29.9 kDa subunit of NADH : ubiquinone reductase from *Neurospora crassa* mitochondria
J.C. Van der Pas, D.A. Röhlen, U. Weidner and H. Weiss (F.R.G.) 389

Primary structure of the nuclear-encoded 18.3 kDa subunit of NADH : ubiquinone reductase (complex I) from *Neurospora crassa* mitochondria
U. Weidner, U. Sackmann, U. Nehls and H. Weiss (F.R.G.) 391

Nucleotide sequence of a cDNA for the α subunit of human mitochondrial ATP synthase
H. Kataoka and C. Biswas (U.S.A.) 393

Nucleotide sequence of a mosquito 18S ribosomal RNA gene
G.D. Baldridge and A.M. Fallon (U.S.A.) 396

Nucleotide sequence to a teicoplanin resistance gene from *Actinoplanes teichomyceticus*
M. Sosio, R. Lorenzetti, F. Robbiati and M. Denaro (Italy) 401

cDNA cloning, sequence analysis and tissue distribution of a precursor for vasoactive intestinal contractor (VIC)
K. Saida and Y. Mitsui (Japan) 404

Elucidation of cDNA sequences for metallothioneins from rainbow trout, stone loach

and pike liver using the polymerase chain reaction
P. Kille, P.E. Stephens and J. Kay (U.K.) 407
Pollen specific cDNA clones from *Zea mays*
H.J. Rogers, R.L. Allen, W.D.O. Hamilton and D.M. Lonsdale (U.K.) 411
Complete coding nucleotide sequence of cDNA for the class II RT1.B β^1 chain of the Lewis rat
J. Syha-Jedelhauser, U. Wendling and K. Reske (F.R.G.) 414
Cloning and characterization of the flavodoxin gene from *Desulfovibrio desulfuricans*
L.R. Helms and R.P. Swenson (U.S.A.) 417
Cumulative Contents, Vol. 1089 421
Author Index 425